

***NATIONAL WEATHER SERVICE  
PRODUCT/SERVICE DESCRIPTION DOCUMENT (PDD)  
TYPE: Experimental Product  
DATE: August 05, 2003***

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EXPERIMENTAL GRAPHICAL AVIATION TIME SERIES

**Part 1 - Mission Connection**

**1. Product/Service Description:**

The National Weather Services (NWS) Graphical Aviation Time Series (GATS) is an optional product displaying a time series of various weather elements important to aviation. The weather elements displayed in time series format include, but may not be restricted to, temperature, dew point, relative humidity, heat index, wind chill, altimeter setting, wind direction, wind speed, wind gust, ceiling height, visibility, and precipitation. These time-series graphs are created by downloading 5-minute ASOS observations once each hour, with a 24-hour floating window of data available.

**2. Purpose/Intended Use:**

Information in the GATS is provided to customers and partners as supplemental flight preparation information in a higher resolution detail not found in other standard NWS products. The GATS presentation allows for rapid visual scanning of a large number of observed parameters and values. Through the GATS product, the NWS strives to improve communication with the aviation and public community by providing customers with weather information in a visual and temporal setting. Hopefully, this presentation will facilitate weather-dependent decision making.

**3. Audience:**

The GATS is intended for use by a large volume users of NWS information with a focus on the aviation customer.

**4. Presentation Format:**

The GATS is a time-series product displaying specific weather parameters in a standard 2-dimensional graphical format. The GATS display can be viewed using a web browser. A sample of this web page can be found at <http://www.crh.noaa.gov/lmk/asos/ksdf.htm>.

**5. Feedback Method:**

We are always seeking to improve our products based on user feedback. General comments regarding the GATS may be submitted to the WFO webmaster or by connecting to the customer survey provided by participating NWS forecast offices. Therefore, users of this experimental product are asked to complete the survey <http://www.crh.noaa.gov/survey/>. Comments will be compiled and evaluated at the appropriate regional or national points of contact through September 30, 2003.

## Part 2 - Technical

### 1. **Format and Science Basis:**

The Graphical Aviation Time Series (GATS) is composed of specific weather elements, some of which are standard observational parameters from ASOS observations while other elements are derived.

### 2. **Availability:**

The GATS is a dynamic product available in near real time displaying hourly increments of each parameter. GATS is available only by via internet.

### 3. **Additional Information:**

The Graphical Aviation Time Series is an optional product service and is not provided as a NWS-wide service.